Practice with VSEPR

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Molecular Formula | Lewis diagram | Lone Pairs around central atom  # LP | Bonding pairs around central atom  #BP | Name of Shape with general formula | Structural or shape diagram | Polar or Non-Polar  P/NP |
| NH3 |  | 1 | 3 | Trigonal pyramid | http://www.chem.purdue.edu/gchelp/vsepr/nh3thk.gif | P |
| N2 |  |  |  |  |  |  |
| HBr |  |  |  |  |  |  |
| OCl2 |  |  |  |  |  |  |
| SiCl4 |  |  |  |  |  |  |
| CH I3 |  |  |  |  |  |  |
| CH3OH |  |  |  |  |  |  |
|  |  |
| S Cl6 |  |  |  |  |  |  |
| **NBr5** |  |  |  |  |  |  |

More Practice

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |
| Molecular Formula | Lewis diagram | Lone Pairs around central atom  # LP | Bonding pairs around central atom  #BP | Name of Shape with general formula | Structural or shape diagram | Polar or Non-Polar  P/NP |
| C2H4 |  |  |  |  |  |  |
|  |  |
| C2H3Cl |  |  |  |  |  |  |
|  |  |
| NHF2 |  |  |  |  |  |  |
| C2IBr |  |  |  |  |  |  |
|  |  |
| C2HF3 |  |  |  |  |  |  |
|  |  |
| CH Cl Br2 |  |  |  |  |  |  |
| H2O2 |  |  |  |  |  |  |
|  |  |
| CO2 |  |  |  |  |  |  |
| **N2H3 F** |  |  |  |  |  |  |
|  |  |
| **ClF5** |  |  |  |  |  |  |
| **Xe F4** |  |  |  |  |  |  |